

SECTION 09250

GYPSUM BOARD

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. This section includes the following:
 - 1. Gypsum board attached to metal framing.
 - 2. Gypsum board finishing (joint taping, joint compound and primer).

1.02 SUBMITTALS

- A. Comply with pertinent provisions of Section 01330.
- B. Product Data: Submit manufacturer's product data for each product specified.

1.03 QUALITY ASSURANCE

- A. Comply with the following standards (Code):
 - 1. California Code of Regulations, Title 24, Part 2, Chapter 25A.
- B. Fire-Resistance Ratings: Comply with fire-resistance ratings as shown and as required by governing authorities and codes. Provide materials, accessories and application procedures which have been listed by UL or tested according to ASTM E 119 for the type of construction shown.

1.04 DELIVERY AND STORAGE

- A. Deliver materials in original packages, containers or bundles, bearing name of manufacturer and brand.
- B. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Neatly stack gypsum panels flat to prevent sagging.

1.05 PROJECT CONDITIONS

- A. Environmental Conditions, General: Establish and maintain environmental conditions for applying and finishing gypsum board to comply with ASTM C 840 requirements or gypsum board manufacturer's recommendations, whichever are more stringent.
- B. Room Temperatures: For non adhesive attachment of gypsum board to framing, maintain not less than 40 deg F. For adhesive attachment and finishing of gypsum board, maintain not less than 50 deg F for 48 hours before application and continuously after until dry. Do not exceed 95 deg F when using temporary heat sources.
- C. Ventilation: Ventilate building spaces as required to dry joint treatment materials. Avoid drafts during hot, dry weather to prevent finishing materials from drying too rapidly.

PART 2 PRODUCTS

2.01 GYPSUM BOARD PRODUCTS

A. Gypsum Wallboard: ASTM C 36, and as follows:

1. Width: 48 inches.
2. Thickness: 5/8 inch except where otherwise indicated.
3. Edges: Tapered.
4. Type X: Provide where required for fire-resistant-rated assemblies, and where indicated.
5. Water resistant Gyp. Board.

2.02 TRIM ACCESSORIES

A. Accessories for Interior Installation: Cornerbead, edge trim, and control joints complying with ASTM C 1047 and requirements indicated below:

1. Material: Steel sheet zinc coated by hot-dip process or rolled zinc.
2. Shapes indicated below by reference to Fig. 1 designations in ASTM C 1047:
 - a. Cornerbead on outside corners, unless otherwise indicated.
 - b. LC-bead with both face and back flanges; face flange formed to receive joint compound. Use LC-beads for edge trim, unless otherwise indicated.
 - c. L-bead with face flange only; face flange formed to receive joint compound. Use L-bead where indicated.

2.03 JOINT TREATMENT MATERIALS

A. General: Provide joint treatment materials complying with ASTM C 475 and the recommendations of both the manufacturers of sheet products and of joint treatment materials for each application indicated.

B. Joint Tape for Gypsum Board: Paper reinforcing tape, unless otherwise indicated.

C. Setting-Type Joint Compounds for Gypsum Board: Factory-packaged, job-mixed, chemical-hardening powder products formulated for uses indicated.

1. Where setting-type joint compounds are indicated as a taping compound only or for taping and filling only, use formulation that is compatible with other joint compounds applied over it.
2. For prefilling gypsum board joints, use formulation recommended by gypsum board manufacturer.
3. For filling joints and treating fasteners of water-resistant gypsum backing board behind base for ceramic tile, use formulation recommendation by gypsum board manufacturer.
4. For topping compound, use sandable formulation.

2.04 ACOUSTICAL SEALANT

A. Acoustical Sealant for Exposed and Concealed Joints: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834.

B. Acoustical Sealant for Concealed Joints: Manufacturer's standard nondrying, nonhardening,

nonskinning, nonstaining, gunnable, synthetic-rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound.

- C. Products: Subject to compliance with requirements, provide one of the following, or approved equal:

1. Acoustical Sealant for Exposed and Concealed Joints:
PL Acoustical Sealant; ChemRex, Inc.; Contech Brands.
AC-20 FTR Acoustical and Insulation Sealant; Pecora Corp.
SHEETROCK Acoustical Sealant; United States Gypsum Co.
2. Acoustical Sealant for Concealed Joints:
BA-98; Pecora Corp.
Tremco Acoustical Sealant; Tremco, Inc.

2.05 MISCELLANEOUS MATERIALS

- A. General: Provide auxiliary materials for gypsum drywall work of the type and grade recommended by the manufacturer of the gypsum board.
- B. Gypsum Board Nails: ASTM C 514.
- C. Steel Drill Screws: ASTM C 1002, for the following applications:
1. Fastening gypsum board to wood members.

PART 3 EXECUTION

3.01 INSTALLATION OF GYPSUM BOARD

- A. Gypsum Board Application and Finishing Standards: Install and finish gypsum panels to comply with ASTM C 840 and GA-216.
- B. Gypsum Board Installation: Apply first to ceilings, then to walls horizontally. Use board of maximum practical lengths. Stagger end joints. Cut or saw all openings. Do not score and punch. Apply metal edge to all exposed edges and outside corners.
- C. Where sound-insulated wallboard work is indicated, seal the work at perimeters, control and expansion joints, openings and penetrations with a continuous bead of acoustical sealant including a bead at both faces of partitions. Comply with manufacturer's recommendations for location of beads, and close off sound-flanking paths around or through the work, including sealing of partitions above acoustical ceilings.
- D. Space fasteners in accordance with Title 24, Part 2, Table 25A-G for single ply and Table 25A-H for two-ply application.
- E. Acoustical Tile Base: Where gypsum panels form the base for adhesively applied acoustical tile, install gypsum wallboard panels with tapered edges taped and finished to produce a flat surface.

3.03 INSTALLATION OF TRIM ACCESSORIES

- A. General: For trim accessories with back flanges, fasten to framing with the same fasteners used to fasten gypsum board. Otherwise, fasten trim accessories according to accessory manufacturer's directions for type, length, and spacing of fasteners.
- B. Install cornerbead at external corners.
- C. Install edge trim where edge of gypsum panels would otherwise be exposed. Provide edge trim type with face flange formed to receive joint compound.
 - 1. Install LC-bead where gypsum panels are tightly abutted to other construction and back flange can be attached to framing or supporting substrate.
 - 2. Install L-bead where edge trim can only be installed after gypsum panels are installed.

3.04 FINISHING OF GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, flanges of cornerbead, edge trim, control joints, penetrations, fasteners heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration.
- B. Prefill open joints, rounded or beveled edges, and damaged areas using setting-type joint compound.
- C. Apply joint tape over gypsum board joints, except those with trim accessories having flanges not requiring tape.
- D. Levels of Gypsum Board Finish: Provide the following levels of gypsum board finish per GA-214.

1. Level 1

- a. Ceiling Plenum Areas, concealed Areas, Storage Rooms Janitor Closets and Where Indicated: All joints and interior angles shall have tape embedded in joint compound. Surface shall be free of excess joint compound Tool marks and ridges are acceptable.

Level 2: Typical finish level including all eggshell finish locations, unless otherwise noted.

- a. Where Indicated on Final Drawings to Receive Light Textures or Wall coverings Are to be Applied: All joints and interior angles shall have tape embedded I joint compound and 3 separate coats of joint compound applied over all joints, angles, fastener heads and accessories. All joint compound shall be smooth and free of tool marks and ridges.
- b. In critical lighting areas, flat paints applied over light textures tend to reduce joint photographing. Gloss, semi-gloss and enamel paints are not recommended over this level of finish.
- c. The weight, texture and sheen level of wall coverings applied over his level of finish should be carefully evaluated. Joints and fasteners must be adequately concealed if the wall covering material is lightweight, contains limited pattern, has a gloss finish or a combination of these features is present. Un-backed vinyl wall coverings are not recommended over this level of finish.
- d. Texture: Smooth

Level 3

- a. All Areas Not Noted above and Are scheduled to Received Gloss, Semi-Gloss, Enamel or Non textured Flat Paint; at Areas Under Skylights and at Curved Surfaces: All

joints and interior angles shall have tape embedded in joint compound and 3 separate coats of joint compound applied over all joints, angles, fastener heads and accessories. A thin skim coat of joint compound or a material manufactured especially for this purpose, shall be applied to entire surface. Surface shall be smooth and free of tool marks and ridges.

- E. The finished drywall shall present a smooth, unblemished, homogenous appearance with inconspicuous joining between boards and no visible fasteners. There shall be no areas of raised fibers on the face paper due to over sanding. Visible nail pops, seam lines and cracks within the first year will be corrected as required by the guarantee.
- F. Use the following joint compound combination as applicable to the finish levels specified:
 - 1. Embedding and First Coat: Setting-type joint compound. Fill (Second) Coat: Setting-type joint compound. Finish (Third) Coat: Sandable, setting-type joint compound.
- G. Where Level 3 gypsum board finish is indicated, embed tape in joint compound and apply first, fill (second), and finish (third) coats of joint compound over joints, angles, fastener heads, and accessories; and apply a thin, uniform skim coat of joint compound over entire surface. For skim coat, use joint compound specified for third coat, or a product specially formulated for this purpose and acceptable to gypsum board manufacturer. Touch up and sand between coats and after last coat as needed to produce a surface free of visual defects, tool marks, and ridges and ready for decoration.
- H. Where Level 1 gypsum board finish is indicated, embed tape in joint compound.

3.05 CLEANING AND PROTECTION

- A. Promptly remove any residual joint compound from adjacent surfaces.
- B. Provide final protection and maintain conditions, in a manner acceptable to Installer, that ensure gypsum board assemblies are without damage or deterioration at the time of Completion.

END OF SECTION